CLAIMS

What is claimed is:

1. An interrogator comprising:

a carrier oscillator connected to a transmitting mixer,

a receiver unit, and

an receiving high-frequency amplifier for amplifying the receiving high-frequency received by said receiver unit, wherein

carrier generated by the carrier oscillator is interference-inputted to the receiving high-frequency amplifier, thereby modulating the receiving high-frequency.

2. The interrogator according to Claim 1, wherein

said receiving high-frequency amplifier, said carrier oscillator, and said transmitting mixer are provided on an identical printed-circuit board, and

said carrier oscillator is arranged between said receiving high-frequency amplifier and said transmitting mixer.

3. The interrogator according to either of Claims 1 or 2, wherein

said carrier oscillator and said receiving high-frequency amplifier are arranged in an identical shield section.

4. The interrogator according to Claim 1, wherein

the interference-input from said carrier oscillator to said receiving high-frequency amplifier is executed by loose-coupling an antenna of the transmitter unit and an antenna of said receiver unit.

5. The interrogator according to Claim 1, wherein

the interference-input from said carrier oscillator to said receiving

high-frequency amplifier is executed by loose-coupling an output of said carrier oscillator and an input of said receiving high-frequency amplifier in a capacitor of low-capacitance.

6. The interrogator according to Claim 1, wherein

the interference-input from said carrier oscillator to said receiving high-frequency amplifier is executed by loose-coupling an output of said transmitting mixer and an input of said receiving high-frequency amplifier by mutual induction of transmission lines, which are parallel to each other.